CLAIMS

What is claimed is:

1　　1.　　A method for organizing a digital image, comprising:

2　　identifying, within the digital image, a set of digitized objects; and

3　　adjusting at least one digitized object within the digital image so that the

4　adjusted digitized object at least substantially conforms to a prescribed state,..

1　　2.　　The method of Claim 1, wherein adjusting affects one or more of a

2　size, a location, and an orientation of the digitized object.

1　　3.　　The method of Claim 1, further comprising generating the digital

2　image of a set of objects, each of the set of digitized objects being a digital

3　replica of one of the set of objects.

1　　4.　　The method of Claim 3, wherein the steps of identifying and

2　adjusting are performed automatically upon generation of the digital image.

1　　5.　　The method of Claim 1 further comprising automatically instructing

2　that the digital image be produced upon performing the steps of identifying and

3　adjusting.

1　　6.　　The method of Claim 1, wherein adjusting comprises adjusting at

2　least one digitized object within the digital image so that the adjusted digitized

3　object shares a generally uniform state with another digitized object.

1　　7.　　The method of Claim 1, wherein adjusting comprises for at least

2　one digitized object, aligning that object with and snapping that object to an

3　alignment grid.

1　　8.　　The method of Claim 7, wherein aligning comprises identifying an

2　alignment axis of that digitized object and rotating that digitized object so that

3　the alignment axis is generally parallel with an axis of the alignment grid.

1   9.   The method of Claim 7, wherein snapping comprises identifying an

2   alignment edge of that digitized object and positioning that digitized object so

3   that the alignment edge is substantially in line with a grid line of the alignment

4   grid.

1   10.   The method of Claim 7, wherein snapping comprises identifying a

2   first edge of that digitized object and a second edge of that digitized object, the

3   first edge being substantially perpendicular to the second edge and positioning

4   that digitized object so that the first edge is substantially in line with a first grid

5   line of the alignment grid and the second edge is substantially in line with a

6   second grid line of the alignment grid.

1   11.   The method of Claim 7, wherein snapping comprises assigning a

2   snap line to the digitized object and positioning that digitized object so that the

3   snap line is substantially in line with a grid line of the alignment grid.

1   12.   The method of Claim 7, wherein:

2   aligning comprises identifying an alignment axis of that digitized object

3   and rotating that digitized object so that the alignment axis is generally parallel

4   with an axis of the alignment grid; and

5   snapping comprises identifying an edge of that digitized object and

6   positioning that digitized object so that the identified edge is substantially in line

7   with a grid line of the alignment grid.

1   13.   The method of Claim 1, wherein adjusting comprises adjusting at

2   least one digitized object within the digital image so that the adjusted digitized

3   object at least substantially conforms to a prescribed location, orientation, and

4   size.

1   14.   The method of Claim 1, wherein adjusting comprises for each

2   digitized object, aligning the digitized object with and snapping the digitized

3   object to an alignment grid.

1   15.   The method of Claim 14, wherein aligning comprises identifying an
2   alignment axis for the digitized object and rotating the digitized object so that
3   the alignment axis is generally parallel with an axis of the alignment grid.

1   16.   The method of Claim 14, wherein snapping comprises identifying
2   an alignment edge of the digitized object and positioning the digitized object so
3   that the alignment edge is substantially in line with a grid line of the alignment
4   grid.

1   17.   The method of Claim 14, wherein snapping comprises identifying a
2   first edge of the digitized object and a second edge of the digitized object, the
3   first edge being substantially perpendicular to the second edge and positioning
4   the digitized object so that the first edge is substantially in line with a first grid
5   line of the alignment grid and the second edge is substantially in line with a
6   second grid line of the alignment grid.

1   18.   The method of Claim 14, wherein the set of digitized objects has a
2   non-uniform object spacing, and wherein snapping comprises repositioning one
3   or more of the digitized objects to establish a substantially uniform object
4   spacing among the set of digitized objects.

1   19.   The method of Claim 14, wherein snapping comprises repositioning
2   one or more of the digitized objects to establish, across a dimension of the
3   digital image, a substantially uniform object spacing among the set of digitized
4   objects.

1   20.   The method of Claim 19, wherein adjusting also comprises resizing
2   at least one digitized object so that one or more of the digitized objects
3   substantially spans the dimension of the digital image.

1   21.   The method of Claim 14, wherein adjusting also comprises, for

2   each digitized object, resizing the digitized object to at least substantially

3   conform to a pre-selected size.

1   22.   The method of Claim 14, wherein:

2   aligning comprises identifying an alignment axis of the digitized object and

3   rotating the digitized object so that the alignment axis is generally parallel with

4   an axis of the alignment grid; and

5   snapping comprises identifying an edge of the digitized object and

6   positioning the digitized object so that the identified edge is substantially in line

7   with a grid line of the alignment grid.

1   23.   A method for organizing a digital image, comprising:

2   identifying, within the digital image, a set of digitized objects;

3   providing an alignment grid for the digital image;

4   for each digitized object:

5   rotating that digitized object so that an alignment axis of

6   that digitized object is generally parallel with an axis of the

7   alignment grid; and

8   positioning that digitized object so that an edge of that

9   digitized object is substantially in line with a grid line of the

10   alignment grid; and

11   wherein the steps of identifying, providing, rotating, and positioning are

12   performed automatically upon generation of the digital image.

1   24.   A computer readable medium having instructions for:

2   identifying, within a digital image, a set of digitized objects; and

3   adjusting at least one digitized object within the digital image so that the

4   adjusted digitized object at least substantially conforms to a prescribed state.

1   25.   The medium of Claim 24, wherein the instructions for adjusting

2   affect one or more of a size, a location, and an orientation of the digitized

3   object.

1   26.   The medium of Claim 24, having further instructions for generating
2   the digital image of a set of objects, each of the set of digitized objects being a
3   digital replica of one of the set of objects.

1   27.   The medium of Claim 26, wherein the instructions for identifying
2   and adjusting are executed automatically upon generation of the digital image.

1   28.   The medium of Claim 24 having further instructions for
2   automatically instructing that the digital image be produced upon execution of
3   the instructions for identifying and adjusting.

1   29.   The medium of Claim 24 wherein the instructions for adjusting
2   include instructions for adjusting at least one digitized object within the digital
3   image so that the adjusted digitized object shares a generally uniform state with
4   another digitized object.

1   30.   The medium of Claim 24, wherein the instructions for adjusting
2   include, for at least one digitized object, instructions for aligning that object with
3   and snapping that object to an alignment grid.

1   31.   The medium of Claim 30, wherein the instructions for aligning
2   include instructions for identifying an alignment axis of that digitized object and
3   rotating that digitized object so that the alignment axis is generally parallel with
4   an axis of the alignment grid.

1   32.   The medium of Claim 30, wherein the instructions for snapping
2   include instructions for identifying an alignment edge of that digitized object and
3   positioning that digitized object so that the alignment edge is substantially in line
4   with a grid line of the alignment grid.

1   33.   The medium of Claim 30, wherein the instructions for snapping

2   include instructions for identifying a first edge of that digitized object and a

3   second edge of that digitized object, the first edge being substantially

4   perpendicular to the second edge and positioning that digitized object so that the

5   first edge is substantially in line with a first grid line of the alignment grid and

6   the second edge is substantially in line with a second grid line of the alignment

7   grid.

1   34.   The method of Claim 30, wherein snapping comprises assigning a

2   snap line to the digitized object and positioning that digitized object so that the

3   snap line is substantially in line with a grid line of the alignment grid.

1   35.   The medium of Claim 30, wherein the instructions for:

2   aligning include instructions for identifying an alignment axis of that

3   digitized object and rotating that digitized object so that the alignment axis is

4   generally parallel with an axis of the alignment grid; and

5   snapping include instructions for identifying an edge of that digitized

6   object and positioning that digitized object so that the identified edge is

7   substantially in line with a grid line of the alignment grid.

1   36.   The medium of Claim 30, wherein the instructions for adjusting

2   include instructions for adjusting at least one digitized object within the digital

3   image so that the adjusted digitized object at least substantially conforms to a

4   prescribed location, orientation, and size.

1   37.   The medium of Claim 24, wherein the instructions for adjusting

2   include, for each digitized object, instructions for aligning the digitized object

3   with and snapping the digitized object to an alignment grid.

1   38.   The medium of Claim 37, wherein the instructions for aligning

2   include instructions for identifying an alignment axis for the digitized object and

3   rotating the digitized object so that the alignment axis is generally parallel with

4   an axis of the alignment grid.

1   39.   The medium of Claim 37, wherein the instructions for snapping
2   include instructions for identifying an alignment edge of the digitized object and
3   positioning the digitized object so that the alignment edge is substantially in line
4   with a grid line of the alignment grid.

1   40.   The medium of Claim 37, wherein the instructions for snapping
2   include instructions for identifying a first edge of the digitized object and a
3   second edge of the digitized object, the first edge being substantially
4   perpendicular to the second edge and positioning the digitized object so that the
5   first edge is substantially in line with a first grid line of the alignment grid and
6   the second edge is substantially in line with a second grid line of the alignment
7   grid.

1   41.   The medium of Claim 37, wherein the set of digitized objects has a
2   non-uniform object spacing, and wherein the instructions for snapping include
3   instructions for repositioning one or more of the digitized objects to establish a
4   substantially uniform object spacing among the set of digitized objects.

1   42.   The medium of Claim 37, wherein the instructions for snapping
2   include instructions for repositioning one or more of the digitized objects to
3   establish, across a dimension of the digital image, a substantially uniform object
4   spacing among the set of digitized objects.

1   43.   The medium of Claim 42, wherein the instructions for adjusting
2   also include instructions for resizing at least one digitized object so that one or
3   more of the digitized objects substantially spans the dimension of the digital
4   image.

1   44.   The medium of Claim 37, wherein the instructions for adjusting
2   also include instructions, for each digitized object, resizing the digitized object to
3   at least substantially conform to a pre-selected size.

1   45.   The medium of Claim 37, wherein the instructions for:

2   aligning include instructions for identifying an alignment axis of the

3 digitized object and rotating the digitized object so that the alignment axis is

4 generally parallel with an axis of the alignment grid; and

5   snapping include instructions for identifying an edge of the digitized

6 object and positioning the digitized object so that the identified edge is

7 substantially in line with a grid line of the alignment grid.

1   46.   A computer readable medium having instructions for:

2   identifying, within a digital image, a set of digitized objects;

3   providing an alignment grid for the digital image; and

4   for each digitized object:

5   rotating that digitized object so that an alignment axis of

6   that digitized object is generally parallel with an axis of the

7   alignment grid; and

8   positioning that digitized object so that an edge of that

9   digitized object is substantially in line with a grid line of the

10   alignment grid.

1   47.   A digital image organizing system, comprising:

2   a detection module operable to identify, within the digital image, a set of

3 digitized objects; and

4   an adjustment module operable to adjust at least one digitized object

5 within the digital image so that the adjusted digitized object at least substantially

6 conforms to a prescribed state.

1   48.   The system of Claim 47, wherein the adjustment module is

2 operable to adjust at least one digitized object within the digital image so that

3 the adjusted digitized object shares a generally uniform state with another

4 digitized object.

1   49.   The system of Claim 47, wherein the adjustment module is

2   operable to:

3   rotate the digitized object so that an alignment axis of the digitized object

4   is generally parallel with an axis of an alignment grid; and

5   position the digitized object so that an edge of that digitized object is

6   substantially in line with a grid line of the alignment grid.

1   50.   The system of Claim 47, wherein the adjustment module is

2   operable to adjust at least one digitized object within the digital image so that

3   the adjusted digitized object at least substantially conforms to a prescribed

4   location, orientation, and size.

1   51.   The system of Claim 47, wherein the adjustment module is

2   operable to reposition one or more of the digitized objects to establish, across a

3   dimension of the digital image, a substantially uniform object spacing among the

4   set of digitized objects.

1   52.   The system of Claim 47, wherein the adjustment module is

2   operable to resize at least one digitized object so that one or more of the

3   digitized objects substantially spans the dimension of the digital image.

1   53.   The system of Claim 47, further comprising an interface module

2   operable to direct the detection module and the adjustment module to perform

3   their functions upon generation of the digital image.

1   54.   The system of Claim 53, further comprising an interface module

2   operable to send instructions for producing the digital image once the detection

3   module and the adjustment module have performed their functions.

1   55.   A multifunction peripheral, comprising:

2   a scan engine operable to generate a digital image containing a set of

3   digitized objects, each of the digitized objects being an electronic replica of a

4   physical object;

1   a detection module operable to identify, within, the digital image, a set of

2   digitized objects;

3   an adjustment module operable to adjust at least one digitized object

4   within the digital image so that the adjusted digitized object at least substantially

5   conforms to a prescribed state; and

6   a print engine operable to produce the digital image on a media sheet.

1   56.   The multifunction peripheral of Claim 55, further comprising an

2   interface module operable to direct the detection module and the adjustment

3   module to perform their functions upon generation of the digital image by the

4   scan engine and to instruct the print engine to produce the digital image once

5   the detection module and the adjustment module have performed their

6   functions.

1   57.   A digital image organizing system, comprising:

2   a means for identifying, within the digital image, a set of digitized objects;

3   and

4   a means for adjusting at least one digitized object within the digital image

5   so that the adjusted digitized object at least substantially conforms to a

6   prescribed state.